

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P974863

Luminaire Tested: FLR2-24-65HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-65HE-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

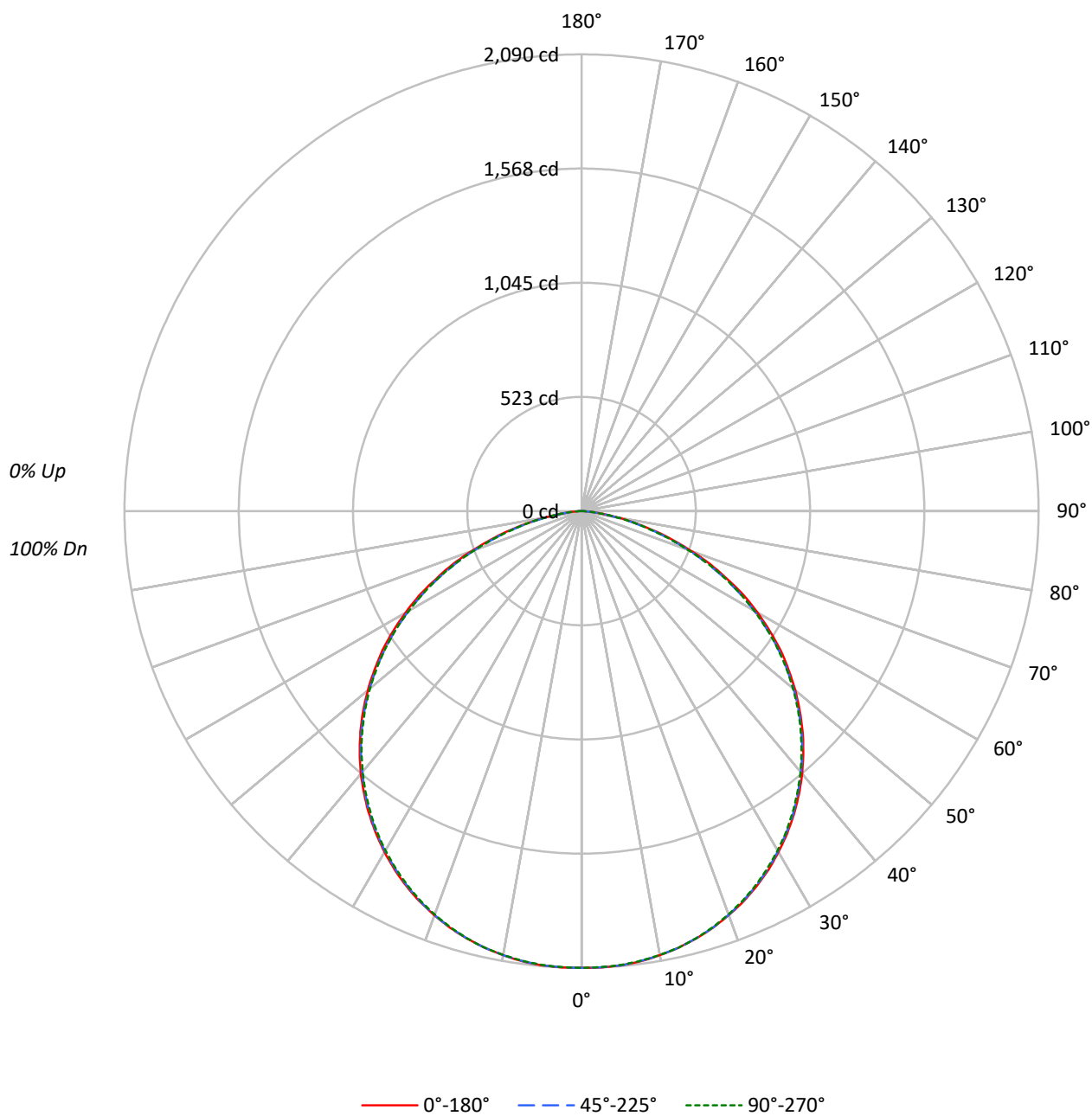
Lumens per Lamp: N/A
Luminaire Lumens: 5907.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2812	2812	2812
5°	2818	2818	2816
10°	2820	2819	2818
15°	2820	2819	2819
20°	2818	2816	2812
25°	2812	2807	2802
30°	2800	2792	2786
35°	2781	2774	2764
40°	2757	2740	2736
45°	2721	2705	2697
50°	2670	2650	2642
55°	2607	2570	2567
60°	2498	2454	2454
65°	2337	2282	2290
70°	2103	2039	2033
75°	1766	1696	1688
80°	1290	1226	1278
85°	729	672	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	3.4
10°-20°	571.5	9.7
20°-30°	871.4	14.8
30°-40°	1055.7	17.9
40°-50°	1096.6	18.6
50°-60°	981.0	16.6
60°-70°	715.0	12.1
70°-80°	354.1	6.0
80°-90°	63.3	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1641.3	27.8
0°-40°	2697.0	45.7
0°-60°	4774.7	80.8
0°-90°	5907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2086	2087	2086	2086	2085	198
15°	2025	2024	2024	2026	2024	572
25°	1894	1892	1890	1890	1888	873
35°	1693	1691	1689	1686	1683	1059
45°	1430	1427	1422	1419	1417	1102
55°	1111	1103	1096	1096	1094	990
65°	734	728	717	720	719	728
75°	340	334	326	332	325	362
85°	47	44	44	44	44	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2090.0	2090.0	2090.0	2090.0	2090.0
2.5°	2090.0	2089.3	2089.3	2090.0	2088.5
5°	2086.3	2087.0	2086.3	2086.3	2084.8
7.5°	2078.0	2077.3	2076.5	2077.3	2075.0
10°	2063.8	2063.8	2063.0	2063.8	2062.3
12.5°	2046.5	2046.5	2046.5	2047.3	2046.5
15°	2024.8	2024.0	2024.0	2025.5	2024.0
17.5°	1999.3	1998.5	1998.5	1997.8	1996.3
20°	1967.8	1967.8	1967.0	1966.3	1964.0
22.5°	1934.0	1933.3	1931.0	1931.0	1928.0
25°	1894.3	1892.0	1890.5	1889.8	1887.5
27.5°	1850.8	1847.8	1845.5	1844.0	1841.8
30°	1802.1	1799.1	1796.8	1794.6	1793.1
32.5°	1749.6	1748.1	1744.3	1743.6	1740.6
35°	1693.3	1691.1	1688.8	1685.8	1682.8
37.5°	1633.3	1631.1	1625.8	1624.3	1622.1
40°	1569.6	1566.6	1559.8	1559.8	1557.6
42.5°	1501.3	1498.3	1493.8	1490.8	1489.3
45°	1430.1	1427.1	1421.8	1418.8	1417.3
47.5°	1354.4	1352.1	1346.1	1343.9	1341.6
50°	1275.6	1272.6	1265.9	1264.4	1262.1
52.5°	1193.1	1191.6	1182.6	1181.9	1179.6
55°	1111.4	1103.1	1095.6	1095.6	1094.1
57.5°	1021.4	1015.4	1005.6	1005.6	1004.1
60°	928.4	923.1	911.9	913.4	911.9
62.5°	837.7	826.4	815.9	820.4	816.7
65°	734.2	728.2	716.9	719.9	719.2
67.5°	639.7	628.4	617.9	623.9	620.9
70°	534.7	528.7	518.2	524.2	516.7
72.5°	435.7	430.5	420.0	426.7	419.2
75°	339.7	334.5	326.2	332.2	324.7
77.5°	249.0	245.2	237.7	243.7	245.2
80°	166.5	162.0	158.2	163.5	165.0
82.5°	97.5	94.5	93.0	93.7	97.5
85°	47.2	43.5	43.5	44.2	44.2
87.5°	12.7	11.2	12.7	13.5	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)